Seat No.: ___ Enrolment No. **GUJARAT TECHNOLOGICAL UNIVERSITY** B. Pharm. - SEMESTER - I • EXAMINATION - WINTER • 2014 Date: 30-12-2014 Subject Code: 210003 Subject Name: Pharmaceutical Chemistry - I Time: 10:30 am - 01:30 pm **Total Marks: 80 Instructions:** 1. Attempt any five questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. **Q.1** (a) Explain the following terms 06 1. Bacteriostatic 2. Pharmacopoeia 3. Indicator 4. Buffer capacity 5. Suspending agent 6. Alkalosis (b) Define and classify topical agents with suitable examples. Give preparation, 05 assay and uses of ZnO. (c) Explain the term 'limit test' and write down the limit test for chloride and sulphate. 05 **Q.2** (a) Enumerate the various acid and base theories. Explain any two with its limitation 06 in detail. (b) Give an informative note on dental products. 05 (c) Define antidotes. Enumerate various types of antidotes with suitable examples. 05 Give preparation and uses of any two. **Q.3** (a) What do you understand by antibacterial agents? Explain its mechanism. 06 Give the properties, assay principle and uses of AgNO₃. (b) Write a short note on Limit test for Arsenic. 05 (c) Write a brief note on Radiopharmaceuticals. 05 **Q.4** (a) Write a note on electrolyte replenishers and antioxidants. 06 (b) Define the following terms with suitable example 05 1. Cathartics 2. Preservatives 3. Sedative 4. Deliquesant 5. Expectorants (c) Give the synonyms and uses of 05 1. Boric acid 2. Slaked lime 3. Baking soda 4. Chlorinated lime 5. Rochelle Salt **Q.5** (a) Write the assay principle and uses of followings 06 Phosphoric acid a. Ammonium chloride b. Hydrochloric acid (b) Classify followings with suitable examples 05 Antioxidants a. Antimicrobial agents

(c) Write about the source of impurities.

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